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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

03/15/2010

HARRINGTON & SMITH 4 RESEARCH DRIVE, Suite 202 SHELTON, CT 06484-6212 EXAMINER

MILLER, BRANDON J

ART UNIT PAPER NUMBER

2617

DATE MAILED: 03/15/2010

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
_	10/559,919	12/07/2005	R. Thomas Derryberry	873.0121.U1(US)	2654

TITLE OF INVENTION: METHOD AND APPARATUS FOR SWITCHING MOBILE STATION BETWEEN AUTONOMOUS AND SCHEDULED

TRANSMISSIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/15/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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29683	7590 03/15	/2010				e of Mailing or Transn	niccion
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							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	PR	ATTC	DRNEY DOCKET NO.	CONFIRMATION NO.
10/559,919	12/07/2005	•	R. Thomas Derryberry	,	8	73.0121.U1(US)	2654
TITLE OF INVENTION TRANSMISSIONS	N: METHOD AND AP	PARATUS FOR SWIT	CHING MOBILE STAT	TION BETWEEN .	AUTON	NOMOUS AND SCHE	EDULED
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	E PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	06/15/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
MILLER, BI	RANDON J	2617	455-450000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			registered attorney or agent) and the names of up to				
recordation as set fortl (A) NAME OF ASSIC	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee bletion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	patent. If an assign n assignment. 'Y and STATE OR	COUNT	ΓRΥ)	ocument has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	┛ Individual C	orporat	ion or other private gro	up entity 🔲 Government
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	s SMALL ENTITY statu	is. See 37 CFR 1.27.	b. Applicant is no lo				
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10/559,919	12/07/2005	R. Thomas Derryberry	873.0121.U1(US)	2654	
29683 7590 03/15/2010			EXAMINER		
HARRINGTON	& SMITH	MILLER, BRANDON J			
4 RESEARCH DR	· · · · · · · · · · · · · · · · · · ·	ART UNIT	PAPER NUMBER		
SHELTON, CT 06	0484-6212		2617		
		DATE MAILED: 03/15/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/559,919	DERRYBERRY ET AL.	
Notice of Allowability	Examiner	Art Unit	
	BRANDON J. MILLER	2617	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED () or other appropriate comm RIGHTS. This application is	ith the correspondence address- n this application. If not included unication will be mailed in due cours	
1. This communication is responsive to <u>11/16/2009</u> .			
2. ☑ The allowed claim(s) is/are <u>1-39</u> .			
3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	e been received. e been received in Application cuments have been received for this communication to file MENT of this application.	on No ed in this national stage application fr e a reply complying with the requiren	nents
 A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which giv 			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu			
(a) including changes required by the Notice of Draftsper	-	w (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	=		
(b) including changes required by the attached Examiner Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR areach sheet. Replacement sheet(s) should be labeled as such in) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			he
Attachment(s) 1. □ Notice of References Cited (PTO-892) 2. □ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview S	nformal Patent Application Summary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's	./Mail Date s Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit		s Statement of Reasons for Allowanc	e
of Biological Material	9. 🔲 Other		
/Brandon J Miller/	/George Eng/		
Examiner, Art Unit 2617	Supervisory Pa	atent Examiner, Art Unit 2617	

Application/Control Number: 10/559,919 Page 2

Art Unit: 2617

DETAILED ACTION

EXAMINER'S AMENDMENT

I. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 1 should be amended as follows:

1. (Currently Amended) A method comprising: when a mobile station is in an autonomous mode of operation, autonomously transmitting data from the mobile station to a base station on a reverse channel; in response to receiving an acknowledgment indication from the base station, that comprises a reverse channel assignment message for the mobile station, switching the mobile station to a scheduled mode of operation, where, while in the scheduled mode, the mobile station provides data transmission power information and data transmission buffer status information as a request to transmit data and a buffer activity bit as a data rate request bit [and a buffer activity bit as a data rate request bit]; and transmitting data from the mobile station on an assigned reverse channel.

Allowable Subject Matter

II. The following is an examiner's statement of reasons for allowance:

Claim 1 recites a method comprising steps as defined in the specification (pages 4-13) including, in pertinent part, while in the scheduled mode, the mobile station provides data

transmission power information and data transmission buffer status information as a request to transmit data and a buffer activity bit as a data rate request bit.

This is neither taught nor suggested by the prior art.

Claims 2-9 and 36-37 are allowable based on their dependence on independent claim 1.

Claim 10 recites an apparatus comprising a structure as defined in the specification (pages 4-13) including, in pertinent part, while in the scheduled mode, the apparatus provides data transmission power information and data transmission buffer status information as a request to transmit data and a buffer activity bit as a data rate request bit.

This is neither taught nor suggested by the prior art.

Claims 11-19, 35 and 38-39 are allowable based on their dependence on independent claim 10.

Claim 20 recites a method comprising steps as defined in the specification (pages 4-13) including, in pertinent part, receiving, from the base station in response, a power control bit, a data rate grant bit and an acknowledgment/non-acknowledgment indication, wherein there exist at least four reverse supplemental channel states and at least eight transitions between the reverse supplemental channel states, wherein the at least four reverse supplement channel states include a reverse supplement channel initialization state, a reverse supplemental channel autonomous state, a reverse supplemental channel scheduled state, and a reverse supplemental channel release state.

This is neither taught nor suggested by the prior art.

Art Unit: 2617

Claims 21-22 are allowable based on their dependence on independent claim 20.

Claim 23 recites a method comprising steps as defined in the specification (pages 4-13) including, in pertinent part, executing one of a plurality of techniques to generate a reverse supplemental channel initialization state, comprising one of... after executing the reverse channel initialization state and when operating the mobile station with the base station, transmitting data packets from the mobile station on the reverse supplement channel, where there are at least four reverse supplemental channel states and at least eight transitions between the reverse supplemental channel states, where the at least four reverse supplement channel states comprise a reverse supplement channel initialization state, a reverse supplemental channel autonomous state, a reverse supplemental channel scheduled state, and a reverse supplemental channel release state.

This is neither taught nor suggested by the prior art.

Claims 24-30 are allowable based on their dependence of independent claim 20.

Claim 31 recites a method comprising steps as defined in the specification (pages 4-13) including, in pertinent part, transmitting data from the mobile station to the base station over a reverse supplemental channel, wherein there exist at least four reverse supplemental channel states and at least eight transitions between the reverse supplemental channel states, wherein the at least four reverse supplement channel states include a reverse supplement channel initialization state, a reverse supplemental channel autonomous state, a reverse supplemental channel scheduled state, and a reverse supplemental channel release state.

Art Unit: 2617

This is neither taught nor suggested by the prior art.

Claim 32 recites a mobile station with a structure as defined in the specification (pages 4-13) including, in pertinent part, said data processor being responsive to a reception of an acknowledgment indication from the base station for switching the mobile station to a scheduled mode of operation and for transmitting data from the mobile station to the base station over a reverse supplemental channel wherein there exist at least four reverse supplemental channel states and at least eight transitions between the reverse supplemental channel states, wherein the at least four reverse supplement channel states include a reverse supplement channel initialization state, a reverse supplemental channel autonomous state, a reverse supplemental channel scheduled state, and a reverse supplemental channel release state.

This is neither taught nor suggested by the prior art.

Claim 33 recites a method comprising steps as defined in the specification (pages 4-13) including, in pertinent part, transmitting data packets from the mobile station transmitting data from the mobile station to the base station over a reverse supplemental channel wherein there exist at least four reverse supplemental channel states and at least eight transitions between the reverse supplemental channel states, further comprising transmitting mobile station buffer activity bits and a data rate request bit, and receiving, from the base station in response, a power control bit, a data rate grant bit and an acknowledgment/non acknowledgment indication, wherein the at least four reverse supplement channel states include a reverse supplement channel

initialization state, a reverse supplemental channel autonomous state, a reverse supplemental channel scheduled state, and a reverse supplemental channel release state.

This is neither taught nor suggested by the prior art.

Claim 34 recites a mobile station with a structure as defined in the specification (pages 4-13) including, in pertinent part, in the scheduled mode, the mobile station is configured to transmit a request by providing data transmission power information and selected data transmission buffer status information to the base station for granting a data transmission rate to the mobile station, wherein there exist at least four reverse supplemental channel states and at least eight transitions between the reverse supplemental channel states, wherein the at least four reverse supplement channel states include a reverse supplement channel initialization state, a reverse supplemental channel autonomous state, a reverse supplemental channel scheduled state, and a reverse supplemental channel release state.

This is neither taught nor suggested by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/559,919

Art Unit: 2617

Conclusion

III.Any inquiry concerning this communication or earlier communications from the

examiner should be directed to BRANDON J. MILLER whose telephone number is (571)272-

7869. The examiner can normally be reached on Mon.-Fri. 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/

Supervisory Patent Examiner, Art Unit 2617

/Brandon J Miller/

Examiner, Art Unit 2617

Page 7

March 2, 2010